VAISALA

Kansas DOT

Rosa Equipment Contract

2010 - 2011

Qty.	Item Description	Part #	List Unit Price	KDOT Contract Unit Price
	WEATHER STATION ELECTRONICS			
1	**North American Guardian w/o Cell Modem**	**DR11SYS4M6INNNANNNNNA**	**23,995.00**	**20,395.75**
	RoSA Master Road Weather Station Software License	RoSAMASTER		
	Frame for RoSA	DMF133		
	Road Sensor and Atmospherics Sensors Interface	DRI521		
	Instrument Cabinet-Large	BOX542		
	Lockset & Flanges	2*215168		
	Mounting Frame, Radiation Shield and Cable Cover	BOX542SET		
	Processing unit with integrated dial-up modem	DMC586M		
	Residual Current Circuit Breaker with Overcurrent Protection	DRMAINS3US		
	US Mains Socket Surge Protector			
	Modem line protection for all dial-up and leased line modems apply with 115 VAC (US version)	218012, 218935		
1	**Road Weather Station RoSA Components**			
1	RoSA Master Road Weather Station Software License	RoSAMASTER	141.70	**120.45**
1	Frame for RoSA	DMF133	407.66	**346.51**
1	Road Sensor Interface	DRI511	715.28	**607.99**
1	Road Sensor and Atmospherics Sensors Interface	DRI521	1,010.45	**858.88**
1	Blank Plate Cover - Large	DM45228	23.00	**19.55**
	Maximum 2 per DMF133			
1	Blank Plate Cover - Small	30602	23.00	**19.55**
	Maximum 2 per DMF133; use with DM45228 where possible			
1	Instrument Cabinet-Small	BOX322	309.56	**263.13**
1	Instrument Cabinet-Large	BOX542	374.96	**318.72**
1	BOX322 Mounting Frame, Radiation Shield and Cable Cover	BOX322SET	202.74	**172.33**
1	BOX542 Mounting Frame, Radiation Shield and Cable Cover	BOX542SET	305.20	**259.42**
1	Lock set for BOX322/BOX542	215168	26.16	**22.24**
	2 per cabinet			
1	Processing unit	DMC586	974.46	**828.29**
1	Processing unit with integrated dial-up modem	DMC586M	1,754.73	**1,491.52**
1	Residual Current Circuit Breaker with Overcurrent Protection, US Mains Socket, Surge Protector	DRMAINS3US	248.52	**211.24**
1	Phone Line surge protector Socket (DIN-Rail mounting)	218012	26.16	**22.24**
1	Phone Line surge protector Plug (US)	218935	89.38	**75.97**
	Communications			
1	**Verizon modem, cable, antenna and adapter in 1 kit**	**CellmodemVZkit**	**1,780.01**	**1,513.01**
1	Alltell modem, cable, antenna and adapter in 1 kit	CellmodemALkit	1,780.01	**1,513.01**
1	AT&T modem, cable, antenna and adapter in 1 kit	CellmodemATkit	1,780.01	**1,513.01**
1	Bell Mobility modem, cable, antenna and adapter in 1 kit	CellmodemBLkit	1,780.01	**1,513.01**
1	Rogers Wireless (CANADA) modem, cable, antenna and adapter in 1 kit	CellmodemRGkit	1,780.01	**1,513.01**
1	Landline Service	Customer provided		
	Power Components			
1	**Power Supply - Din Rail Mounted**	**PS5RSD24**	**177.72**	**151.06**
1	Use whenever more than one 24V sensor, cell modem or camera			

Qty	Description	Part Number	Price	Net
1	**Cable Kit**	**DMC586Z1**	**174.40**	**148.24**
1	For DMF133 when built in BOU			
1	**Power Cord, 6'**	**56-22050**	**4.62**	**3.93**
1	For DMF133 when built in BOU			
	RPU Solar Power Supply - Custom Configuration			
1	U.L. listed PV panel array, mounting poles & bracket kit, sealed maintenance free batteries, NEMA 3R battery enclosure, voltage regulator and wiring harness.	Custom Quote Only	Custom Quote	
	Supplemental Surge Protection			
1	Surge Module for AC Mains	2839334 / 909-0004	193.38	164.37
1	Surge Module for 24V	2839318 / 909-0218	193.38	164.37
1	Surge Module for Ethernet	2838762 / 909-0256	386.94	328.90
1	Surge Module for RS-485	2839570 / 909-0261	383.08	325.62
1	Surge Module for Telephone Line	2838733	241.80	205.53
1	Base for AC or 24V modules	2839282 / 909-0002	60.98	51.83
1	Base for RS-485 or Ethernet modules	2839208 / 909-0227	149.16	126.79
1	Base & Module for Telephone Line	2882828	336.46	285.99
1	DIN mount RH-45 Jack	5543630 / 809-0431	89.74	76.28
1	Vaisala 24VDC RS-485 Surge	WSP150	460.00	391.00

ATMOSPHERIC & ENVIRONMENTAL SENSING DEVICES

Qty	Description	Part Number	Price	Net
	Air Temp / Humidity Sensor			
1	Air Temp / Humidity Sensor, RoSA w/o Cable	HMP155D-2AB11A0A0A1A0A	964.00	819.40
1	**HMP155 w/ Connection Cable 3.5m 8-pin M12**	**HMP155D-2AB11A0A1A1A0A**	**1,273.00**	**1,082.05**
1	HMP155 w/ Connection Cable 10m 8-pin M12	HMP155D-2AB11A0A2A1A0A	1,044.00	887.40
1	HMP155 w/ Connection Cable 30m 8-pin M12	HMP155D-2AB11A0A3A1A0A	1,092.00	928.20
1	**Radiation Shield**	**DTR503**	**866.99**	**736.94**
	Use with all new installations			
1	**Pressure Sensor**	**PTB1101B1AA**	**1,050.00**	**892.50**
	BAROCAP® silicon capacitive absolute pressure sensor Range: 500-1100 hPa Total accuracy (-20 ... +45 °C): ±1.00 hPa			
1	**Rain Detector (RAIN ON/OFF)**	**DRD11A**	**2,150.00**	**1,827.50**
1	**Precipitation / Visibility Sensors**			
1	Visibility Sensor PWD10	PWD10-ANNNN1NANNNNAN	5,485.64	4,662.79
1	**Precipitation / Visibility Sensor, 10-2000m**	**PWD12-CNNNN1NANNNNBN**	**7,480.64**	**6,358.54**
1	Precipitation / Visibility Sensor W/ Hood Heaters, 10-2000m	PWD12-DNNNN1NANNNNCN	10,672.00	9,071.20
1	Precipitation / Visibility Sensor, 10-20,000m	PWD22-DNHNN1NANNNNCN	14,224.00	12,090.40
1	Precipitation / Visibility Sensor W/ Hood Heaters, 10-20,000m	PWD22-DNHNN1NANNNNCN	14,528.00	12,348.80
1	Precipitation Identifier PWD31	PWD31-PNNNN1NANNNNMN	4,918.64	4,180.84
1	Precipitation / Identifier Sensor W/ Hood Heaters PWD31	PWD31-PNHNN1NANNNNMN	7,472.00	6,351.20
1	**PWD Connection Cable 3.85m (16 wires)**	**217150**	**261.60**	**222.36**
1	PWD Connection Cable 8m (16 wires)	217147	331.36	281.66
1	PWD Connection Cable 15m (16 wires)	217148	453.44	385.42
1	PWD Connection Cable 35m (16 wires)	217149	715.04	607.78
1	**Wind Sensor Kit**	**WM30B2CB**	**1,430.00**	**1,215.50**
	Wind Sensor Mounting Accessories Kit for WMS301and 50mm-110mm Mast Cable, 10 m	WMS301 WMS30KIT 19904		
1	**Wind Sensor Components**			
1	Wind Sensor	WMS301	1,238.24	1,052.50
1	Mounting Accessories Kit for WMS301 and 50mm-110mm Mast	WMS30KIT	191.84	163.06
1	Cable, 10 m	19904	209.28	177.89
1	**Pyranometer radiation sensor for RoSA**	**DM32RAD**	**433.82**	**368.75**
	Includes QMS101 Pyranometer, DM45991 Installation Plate			
1	Signal and Heating Cable 10m	REIM707651	209.28	177.89
1	Cable, 10 m	19904	209.28	177.89
1	**Mounted Camera Kit, Mobotix**	**228698**	**2,455.58**	**2,087.24**
	Mobotix 12 Camera 30 cable for Mobotix Camera 4 cable for Mobotix Camera	ICECAM_MOBM12 221361 221507		
1	**Fixed Camera Components**			
1	Mobotix 12 Camera	ICECAM_MOBM12	2,402.99	2,042.54
1	Mounting Assembly - Pole Mount	DRUNIV	596.85	507.32
1	Mobotix Mounting Plate - Lattice Mount	ICEMOBOTIXPLATE	47.96	40.77
1	**4' cable for Mobotix Camera**	**221507**	**1.39**	**1.18**
1	**30' cable for Mobotix Camera**	**221361**	**51.21**	**43.53**
1	50' cable for Mobotix Camera	224853	54.48	46.31
1	100' cable for Mobotix Camera	Spec100 Cable	Custom Quote	

Qty	Description	Part #	Price	Extended
1	130' cable for Mobotix Camera	Spec130 Cable	0.00	**0.00**
1	Special Length Cable for Mobotix Camera	(Specify length)	0.00	**0.00**
1	**PTZ Camera Kit**	**227750**	**6,400.00**	**5,440.00**
	Q6032-E Environmental Rated Outdoor PTZ Dome Camera			
	T8124 High Power Midspan (Power over Ethernet Inserter included with camera)			
	35899 IP66 rated Ethernet connector for cable (included with camera)	227721		
	T-91A61 Wall Mount Arm (also has band slots for pole mounting)	227749		
	30' Outdoor UV rated, shielded Ethernet cable with overmolded boots	221361		
	Dehn DPA M CLE RJ45B 48 DEHNpatch ethernet surge suppressor with PoE support	227782		
	0.5m Shielded Ethernet cable with overmolded boots - surge to midspan and midspan to Bluetree modem	217760		
	Mount Plate - midspan PoE inserter to DIN rail	DRW233723		
	Adapter Plate - Camera Arm to Lattice Tower - add if to be installed on lattice tower	DRW233622		
1	**PTZ Camera Components**			
	Q6032-E Environmental Rated Outdoor PTZ Dome Camera			
	T8124 High Power Midspan (Power over Ethernet Inserter included with camera)	227721	6,160.00	
1	35899 IP66 rated Ethernet connector for cable (included with camera)			**5,236.00**
1	T-91A61 Wall Mount Arm (also has band slots for pole mounting)	227749	178.42	**151.65**
1	30' Outdoor UV rated, shielded Ethernet cable with overmolded boots	221361	163.50	**138.98**
1	Dehn DPA M CLE RJ45B 48 DEHNpatch ethernet surge suppressor with PoE support	227782	261.60	**222.36**
1	0.5m Shielded Ethernet cable with overmolded boots - surge to midspan	217760	5.45	**4.63**
1	0.5m Shielded Ethernet cable with overmolded boots - midspan to Bluetree modem	217760	5.45	**4.63**
1	Mount Plate - midspan PoE inserter to DIN rail	DRW233723	327.00	**277.95**
1	Adapter Plate - Camera Arm to Lattice Tower - add if to be installed on lattice tower	DRW233622	327.00	**277.95**
1	**Infrared Illuminator with Power Pack and Cabli**	**ICEIRIL08KIT**	**364.27**	**309.63**
1	Mounting Assembly - Pole Mount	DRUNIV	596.85	**507.32**
1	Mobotix Mounting Plate - Lattice Mount	ICEMOBOTIXPLATE	47.96	**40.77**
1	**Infrared Illuminator, Standard**	**IL08**	**235.44**	**200.12**
1	**Traffic Counter Kit**	**227751**	**7,500.00**	**6,375.00**
	WX-SS-125 Wavetronix SmartSensor HD			
	Wavetronix 40' SmartSensor Cable	80000500		
	Wavetronix Sensor Mount Bracket	80000501		
	Click!200 Surge Module with RS-232 & RS-485 breakout	227987 80000504		
	Click!301 Ethernet to Serial module	80000508		
	0.5m Shielded Ethernet Cable with overmolded boots - Click!301 to Bluetree modem	217760 DRW222954Z500MM		
	RS-232 cable from Click!200 to DMC586			
1	**Traffic Counter Components**			
1	WX-SS-125 Wavetronix SmartSensor HD	80000500	9,810.00	**8,338.50**
1	Wavetronix 40' SmartSensor Cable	80000501	436.00	**370.60**
1	Wavetronix Sensor Mount Bracket	227987	327.00	**277.95**
1	Click!200 Surge Module with RS-232 & RS-485 breakout	80000504	601.68	**511.43**
1	Click!301 Ethernet to Serial module	80000508	1,164.12	**989.50**
1	0.5m Shielded Ethernet Cable with overmolded boots- Click!301 to Bluetree modem	217760	5.45	**4.63**
1	RS-232 cable from Click!200 to DMC586 (length & pinout?)	DRW222954Z500MM	8.72	**7.41**
1	**Sensor Mount Kit, Lattice Tower**	**228699**	**188.92**	**160.58**
	Sensor Support Arm 46"	212564		
	Mounting Assembly, Lattice Mount	XARMMOUNT		
1	**Sensor Mounting Hardware Kit - Pole**	**DRUNIVARM**	**809.75**	**688.29**
	Sensor Support Arm 46"	212564		
	Mounting Assembly, Pole Mount	DRUNIV		
	Fixing Plate	212489		
1	**Sensor Mounting Hardware Components**			
1	Sensor Support Arm 46"	212564	85.02	**72.27**
1	Mounting Assembly, Lattice Mount	XARMMOUNT	103.90	**88.32**
1	Mounting Assembly, Pole Mount	DRUNIV	596.85	**507.32**
1	Fixing Plate	212489	23.98	**20.38**
	Recommended Floor Stock			
1	**Band It Bracket**	**221503**	**10.38**	**8.82**
1	**Band It Bracket lock**	**221504**	**193.67**	**164.62**

1	Band It Strap	221505	285.27	242.48

PAVEMENT SENSORS

1	**Remote Surface State Sensor**	**DSC111**	**16,320.00**	**13,872.00**
1	**Remote Surface Temperature Sensor (RS485)**	**DST111**	**5,350.00**	**4,547.50**

SENSOR CABLES

1	**Communication cable between DSC111 and DST111**	**216548**	**71.94**	**30.57**
1	3 m cable for communications and power supply	26719	63.22	53.74
1	5 m cable for communications and power supply	26720	100.28	85.24
1	**10 m cable for communications and power supply**	**216546**	**122.08**	**103.77**
1	25 m cable for communications and power supply	216547	156.96	133.42
1	50 m cable for communications and power supply	DR221741Z50M	207.10	176.04
1	100 m cable for communications and power supply	DR221741Z100M	337.90	287.22
1	150 m cable for communications and power supply	DR221741Z150M	497.04	422.48
1	Special length cable for communications and power supply	DR221741ZSPEC	0.00	0.00

1	**Embedded Surface Sensors**			
1	Road surface sensor with 20 m cable	DRS511AB2	531.92	452.13
1	Road surface sensor with 30 m cable	DRS511AB3	553.72	470.66
1	Road surface sensor with 50 m cable	DRS511AB5	954.25	811.11
1	**Road surface sensor with 100 m cable**	**DRS511AB10**	**677.98**	**576.28**
1	Road surface sensor with 150 m cable	DRS511AB15	852.38	724.52
1	Road surface sensor with 200 m cable	DRS511AB20	915.60	778.26
1	Road Surface sensor with special length cable (must specify length in TS spec)	DRS511ABSPEC	1,059.48	900.56
1	Road sensor Cable 1 meter	10916	2.18	1.85

1	**Bridge Sensors (Height 50 mm)**			
1	Bridge sensor with 20 m cable	DRS511BB2	531.92	452.13
1	Bridge sensor with 30 m cable	DRS511BB3	553.72	470.66
1	Bridge sensor with 50 m cable	DRS511BB5	599.50	509.58
1	**Bridge sensor with 100 m cable**	**DRS511BB10**	**706.32**	**600.37**
1	Bridge sensor with 150 m cable	DRS511BB15	810.96	689.32
1	Bridge sensor with 200 m cable	DRS511BB20	917.78	780.11
1	Road Surface sensor with special length cable (must specify length in TS spec)	DRS511BBSPEC	1,493.30	1,269.31
1	Road sensor Cable 1 meter	10916	2.18	1.85

1	**Pavement Sensor Installation Kit**	**228704**	**383.40**	**325.89**
1	Metal Stick, Acrylic PY5 Grout - must include HAZMAT shipping charges, HAZMAT Shipping	37-20900 INSTARMAC HAZMAT		

1	**Sensor Installation Components**			
1	**Metal Stick**	**37-20900**	**33.50**	**28.48**
1	**Acrylic PY5 Grout**	**INSTARMAC**	**149.90**	**127.41**
1	**HAZMAT Shipping**	**HAZMAT**	**200.00**	**170.00**

1	**Depth Sensors**			
1	Depth Sensor with 20 M cable	DTS151UKG2	143.50	121.98
1	Depth Sensor with 30 M cable	DTS151UKG3	175.96	149.57
1	Depth Sensor with 50 M cable	DTS151UKG5	210.94	179.30
1	**Depth Sensor with 100 M cable**	**DTS151UKG10**	**323.30**	**274.81**
1	Depth Sensor with 150 M cable	DTS151UKG15	443.17	376.70
1	Depth Sensor with 200 M cable	DTS151UKG20	455.24	386.95
1	Depth Sensor with 300 M cable	DTS151UKG30	560.00	476.00
1	Depth Sensor with 350 M cable	DTS151UKG35	640.00	544.00

SENSOR TOWERS & POLES

1	**Roadway Fold-Over 30' Tower Kit - MF1330**	**ICE30TOWER**	**3,277.00**	**2,785.45**

	24" Cross member mounting bracket			
	Tower top sectionTower fold-over assembly			
	Tower bottom section			
	Tower middle section			
	Fixed base assembly for concrete foundation			
	2 center tower mounts			
1	Anti-climb panels	ICETOWERPANELS	233.02	**198.07**
1	Atmospheric mounting pole	60030002	11.94	**10.15**
1	S-Cross members to mount RPU enclosure	60030004	82.67	**70.27**
1	Padlock	25010001	14.22	**12.09**
1	Tower grounding kit, RPU	24051114	285.45	**242.63**
1	**Roadway Tower Relocation Kit**	**24051012**	**566.33**	**481.38**
1	Fixed base assembly for concrete foundation	60010004	250.70	**213.10**
1	Tower grounding kit, RPU	24051114	285.45	**242.63**
1	**Tower Hinged Base Assembly**	**60010005**	**480.07**	**408.06**
1	**Footing Assembly w/Anchor bolts**	**60010006**	**252.00**	**214.20**
	for KM3030 tower			
1	**MF-1333 Tower Base**	**60001333**	**514.25**	**437.11**
1	**ANS Tower Kit**	**228705**	**8,625.82**	**7,331.95**
	30' ANS Tilt Tower	T30-TILT-TOWER		
	ANS Tower Climbing Obstruction	ANSANTICLIMBPANELS		
	ANS Fixed Base	ANSFIXEDBASE		
	ANS Grounding Kit	ANSGROUNDINGKIT		
1	**ANS Tower Components**			
1	30' ANS Tilt Tower	T30-TILT-TOWER	7,117.48	**6,049.86**
1	ANS Tower cliimbing obstruction	ANSANTICLIMBPANELS	254.84	**216.62**
1	ANS Fixed Base	ANSFIXEDBASE	599.50	**509.58**
1	ANS Grounding Kit	ANSGROUNDINGKIT	654.00	**555.90**

SERVER HARDWARE AND SOFTWARE

	Bureau Service			
1	Data Management, polling up to 5 outstations (per winter season)	ICENET	13,350.00	**11,347.50**
1	Data Management, polling up to 5 outstations (per full year)	ICENET12MONTH	17,430.00	**14,815.50**
1	Data Management per additional outstation (per winter season)	ICENETADD	740.00	**629.00**
	Ice Net			
1	Access to IceNetDisplay for up to 5 concurrent users (per winter)	ICENETDISPLAY	10,010.00	**8,508.50**
1	Access to IceNetDisplay for up to 5 concurrent users (per year)	ICENETDISPLAY12M	12,960.00	**11,016.00**
1	Access to IceNetDisplay per additional concurrent user (per winter)	ICENETDISPLAYADD	1,000.00	**850.00**
1	24hr Forecast per outstation (requires external automated parameters)	ICENETFORECAST	2,592.00	**2,203.20**
1	3hr NowCast per outstation	ICENETNOWCASR	2,016.00	**1,713.60**
1	Forecast accuracy reports per station	FORECASTACCURACY	590.00	**501.50**
1	System monitoring per station	SENSORMONITORING	740.00	**629.00**
1	IceView Remote per user	ICENETVIEWREMOTE	2,080.00	**1,768.00**
1	IceNetAlarm per user	ICENETALARM	2,080.00	**1,768.00**
	Observer			
1	Access to Observer for up to 5 concurrent users (6mths)	OBSERVER6M	7,910.00	**6,723.50**
1	Access to Observer for up to 5 concurrent users (12mths)	OBSERVER12M	12,960.00	**11,016.00**
1	Access to Observer per additional concurrent user	OBSERVERADD	790.00	**671.50**
	Advisor			
1	Access to Advisor for up to 5 concurrent users (12mths)	ADVISOR12M	6,480.00	**5,508.00**
1	Access to Advisor per additional concurrent user	ADVISORADD	662.00	**562.70**
	IceMan			
1	6 to 10 routes / 1 to 5 simultaneous users	ICEMAN5-5	12,479.04	**10,607.18**
1	11 to 20 routes / 1 to 5 simultaneous users	ICEMAN10-5	13,900.00	**11,815.00**
1	21 to 30 routes / 1 to 5 simultaneous users	ICEMAN20-5	16,640.00	**14,144.00**
1	31 to 40 routes / 1 to 5 simultaneous users	ICEMAN30-5	19,470.00	**16,549.50**
1	41 to 50 routes / 1 to 5 simultaneous users	ICEMAN40-5	22,250.00	**18,912.50**
1	51 to 60 routes / 1 to 5 simultaneous users	ICEMAN50-5	25,030.00	**21,275.50**

1	1 to 5 routes / 6 to 10 simultaneous users		12,672.00	**10,771.20**
1	6 to 10 routes / 6 to 10 simultaneous users	ICEMAN5-10	13,350.00	**11,347.50**
1	11 to 20 routes / 6 to 10 simultaneous users	ICEMAN10-10	16,130.00	**13,710.50**
1	21 to 30 routes / 6 to 10 simultaneous users	ICEMAN20-10	18,880.00	**16,048.00**
1	31 to 40 routes / 6 to 10 simultaneous users	ICEMAN30-10	21,690.00	**18,436.50**
1	41 to 50 routes / 6 to 10 simultaneous users	ICEMAN40-10	24,470.00	**20,799.50**
1	51 to 60 routes / 6 to 10 simultaneous users	ICEMAN50-10	27,250.00	**23,162.50**
1	1 to 5 routes / 11 to 15 simultaneous users		13,900.00	**11,815.00**
1	6 to 10 routes / 11 to 15 simultaneous users	ICEMAN5-15	15,570.00	**13,234.50**
1	11 to 20 routes / 11 to 15 simultaneous users	ICEMAN10-15	18,350.00	**15,597.50**
1	21 to 30 routes / 11 to 15 simultaneous users	ICEMAN20-15	21,140.00	**17,969.00**
1	31 to 40 routes / 11 to 15 simultaneous users	ICEMAN30-15	23,920.00	**20,332.00**
1	41 to 50 routes / 11 to 15 simultaneous users	ICEMAN40-15	26,700.00	**22,695.00**
1	51 to 60 routes / 11 to 15 simultaneous users	ICEMAN50-15	29,480.00	**25,058.00**

Island System Components

Small IceCast Appliance

1	Starter System polling up to 5 outstations on a single line	ICECASTSMALL	12,310.00	**10,463.50**
1	Licence price per additional outstation	ICECASTADD	2,080.00	**1,768.00**
1	Iceview 5 local	ICEVIEW5LOCAL	4,710.00	**4,003.50**
1	IceAlarm 5	ICEALARM	2,600.00	**2,210.00**

IceCast Local

1	Starter System polling up to 5 outstations	ICECASTLOCAL	12,530.00	**10,650.50**
1	Licence price per additional outstation	ICECASTADD	2,080.00	**1,768.00**
1	IceView5 launched through a web browser	ICECASTREMOTE	5,280.00	**4,488.00**
1	Data transfer from IceNet (BIR) to local database	PGICEUPDATE	1,630.00	**1,385.50**
1	Data export to XML file	ICEEXPORT	1,930.00	**1,640.50**
1	Data export to CSV file - very simplistic and not cofigurable	CSVEXPORT	1,230.00	**1,045.50**
1	IceAlarm 5	ICEALARM	2,600.00	**2,210.00**

IceCast NTCIP

1	Starter System polling up to 5 outstations	ICECASTNTCIP	12,530.00	**10,650.50**
1	Licence price per additional outstation	NTCIPADD	2,080.00	**1,768.00**

jForecaster

1	Forecaster software for forecasting agency to enter atmos data	JFORECASTER	6,270.00	**5,329.50**

jModelRun

1	For NowCast generation only: Purchase cost (upto 3 forecast sites)	MODELRUNNOWCAST	20,210.00	**17,178.50**
1	Cost/additional forecast site	MODELRUN3HADD	2,030.00	**1,725.50**
1	For 24 h Forecast generation only: Purchase cost (upto 3 forecast sites)	MODELRUNFORECAST	30,310.00	**25,763.50**
1	Cost/additional forecast site	MODELRUN24HADD	2,030.00	**1,725.50**

MESO conversion software

1	Server software to convert ASCII data to XML	VAO2XML	2,270.00	**1,929.50**

Protocol support Software licence

1	NTCIP (NA)		720.00	**612.00**

INSTALLATION SERVICES

1	**System Turnkey Installation by VAISALA Subc**	80400300	Custom Per Project	
1	**Surface Sensor Overlay Installation by VAISAl**	80400350	Custom Per Project	

SERVICE / PREVENTATIVE MAINTENANCE CONTRACTS & ENGINEERING

1	**Commissioning / Site Acceptance**	SAT	1,912.00	1,625.20
	Commissioning is performed by VAISALA Field Service Engineer on site after installation has been completed. It is the process that brings the installed RWIS equipment into a fully operational condition. The VAISALA Field Engineer will calibrate and terminate the pavement sensor cables. The completion of commissioning signifies the start of warranty period. Duration: **X** work days on-site and **Y** travel days. Travel costs except airfare are included; airfare billed at cost.			
1	**Service Day at Site**	SERVDAY	1,912.00	1,625.20
	Annual Maintenance, Project management or Software work, Preparation of installation plan and statement of work (SOW). Engineer, specialist per Day. Duration: **X** work days on-site and **Y** travel days. Includes travel costs except airfare; airfare billed at cost.			
1	**Service/Maintenance Work**	SERVHOUR	164.00	139.40
	Repair at Factory, Calibration, Field Service Work, etc., Total per hour.			
1	**Training Day at Site**	TRAINSITE	1,912.00	1,625.20
	Training on-site, at customer's facilities. Adequate training equipment and facilities as specified by Vaisala are furnished by the Buyer. Training fee covers one set of printed course material. Duration: **X** work days on-site and **Y** travel days. Includes travel costs except airfare; airfare billed at cost.			
1	**Training Day at Factory**	TRAINFACT	1,312.00	1,115.20

	Training at Vaisala's facilities.
	Duration: **X** days
	Training fee covers: Set of printed course material, lunch during working days, transportation between hotel and factory for two participants.
	Air fare, local hotel accommodation and daily allowance are excluded
	    Following IceCast/ROSA training courses are available:
	    * ROSA Maintenance and operator training, typical duration 2 working days.
	    * IceCast operator training, typical duration 1 working day.
	    * IceCast System Managers Training, typical duration 2 working days.			

1	**System User Training, 4 Hour Session, Webinar**	90300570	1,000.00	850.00
	Includes RWIS System and Navigator User training			
1	**Navigator Admin & Configuration Training-Webinar**	90300571	1,000.00	850.00

MANUALS

1	**LX Technical Manual**	00000005	300.00	255.00
	Includes one printed copy and on copy on CD			
1	**Airport System Installation Manual**	00000001	30.00	25.50
1	**Roadway System Installation Manual**	00000002	30.00	25.50
1	**Sensor/Sub Probe Installation/Splice Manual**	00000003	30.00	25.50
1	**Outpost Installation/Operation Manual**	00001800	30.00	25.50
1	**RoSA Manual**	TBD	300.00	255.00